

SVERDRUP

DISCIPLINE SIGN-OFF REVIEW

Sverdrup Environmental, Inc.

Client Name/Job Description USEPA ARCS WA 37- Site Assessment Activity

Job/Charge Numbers 010865 370303
Job No. Charge No.

Document Title/Project Phase Health and Safety Plan Screening Site Inspection
Site Reconnaissance

Document Type	Identify specific section or segment covered by this checkpoint	Document Origin
<input type="checkbox"/> Priced Proposal	_____	<input checked="" type="checkbox"/> Originator Developed
<input type="checkbox"/> RFP	_____	<input type="checkbox"/> Edited Standard
<input type="checkbox"/> Contract/Subcontract	_____	<input type="checkbox"/> Client Furnished
<input type="checkbox"/> Work Plan	_____	
<input type="checkbox"/> SAP, CDAP or QAPP	_____	
<input type="checkbox"/> _____ Report	_____	<u>Document Status</u>
<input type="checkbox"/> Site Assessment Report	_____	<input checked="" type="checkbox"/> Draft
<input type="checkbox"/> Specifications & Plans	_____	<input type="checkbox"/> Draft Final
<input type="checkbox"/> Design Calculations	_____	<input type="checkbox"/> Final
<input type="checkbox"/> Tables	_____	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Drawings	_____	
<input checked="" type="checkbox"/> Other: <u>H&S Plan</u>	<u>H&S Plan - Short Form</u>	

	Required Person	SIGNATURE (MUST BE LEGIBLE)	DATE
Originator	_____	<u>Michael W. McCurdy</u>	<u>11/10/95</u>
Checker	_____	_____	_____
Backchecker	_____	_____	_____
Updater	_____	_____	_____
Rechecker	_____	_____	_____
Tech. Reviewer	_____	<u>Brian / Cross</u>	<u>11/17/95</u>
Tech. Reviewer	_____	_____	_____
Tech. Reviewer	_____	_____	_____
Project Manager	_____	_____	_____

Note: Rechecker is same person as checker.
Backchecker is same person as originator.

Site: Mound St. PCB
DID #: M00000093682
Break: 1.5
Other: 11-10-95

40068849
SUPERFUND RECORDS

REMEDIAL PLANNING ACTIVITIES AT SELECTED
UNCONTROLLED HAZARDOUS SUBSTANCE DISPOSAL SITES
IN THE ZONE OF REGIONS VI, VII, AND VIII

U.S. EPA CONTRACT NO.: 68-W9-0032

Health and Safety Plan

FOR

**Screening Site Inspection
Site Reconnaissance**

**Mound Street PCB Site
100 Mound Street
St. Louis, Missouri**

Work Assignment No.: 037-7JZZ

November 10, 1995

Prepared by:

Sverdrup Environmental, Inc.
4400 College Boulevard, Suite 160
Overland Park, Kansas 66211

**Health & Safety Plan for SSI Site Reconnaissance
Mound Street PCB Site**

Project Manager: Michael McCurdy, CHMM

Health & Safety Manager: Brian Knaus, CIH, CSP

Project Name: Site Screening Inspection -- Site Reconnaissance
Mound Street PCB Site

Project Location: 100 Mound Street
St. Louis, Missouri

Site Contact: Herman Gellman
McKinley Iron Inc.
3620 North Hall Street
St. Louis, Missouri 63147
(314) 231-6077

Description of Field Activities:

The activities to be performed involves a site reconnaissance of the property to observe the site conditions, photograph the site, interview site personnel, and identify potential sample locations. Sverdrup personnel will not be performing any tasks which may disturb or disrupt the conditions of the site. The property has no structures and is currently vacant. The site was part of a former manufactured gas plant.

Contaminants:

Soil contaminated with benzene, toluene, m-xylene, cyanide, and polyaromatic hydrocarbons has been identified on the site. Coal tar wastes are potentially on-site. There is also a potential for polychlorinated biphenyl (PCB) contamination at the site; however, sampling for PCBs has not been conducted in the soil. Oil samples taken from the basement of the Mound Street Site did not show any PCB contamination. Concentrations of identified contaminants from a depth of 0 to 5 feet are shown below:

<u>contaminant</u>	<u>concentration</u>	<u>contaminant</u>	<u>concentration</u>
benzene	< 6,300 ug/kg	fluoranthene	< 16,000 ug/kg
toluene	< 43,000 ug/kg	pyrene	< 3,700 ug/kg
m-xylene	< 240,000 ug/kg	cyanide	< 33 mg/kg

Benzene

Route of Entry: Inhalation, Ingestion, Skin Absorption, Skin or Eye Contact
Target Organs: Blood, Bone Marrow, Central Nervous System, Eyes, Respiratory System, Skin
Hazard: Flammable (FP 12°F), Toxic
PEL: 1 ppm STEL: 5 ppm
IDLH: 500 ppm
IP: 9.24 eV

Exposure to liquid and vapor may produce primary irritation to skin, eyes, and upper respiratory tract. If the liquid is aspirated into the lung, it may cause pulmonary edema and hemorrhage. Erythema, dry, scaly dermatitis may develop from defatting of the skin. Acute exposure results in central nervous system depression. Headache, dizziness, nausea, convulsions, coma and death may result. Chronic exposure may cause blood changes, anemia, and leukemia. Benzene is a carcinogen.

Coal Tar Pitch Volatiles

Route of Entry: Inhalation, Skin or Eye Contact
Target Organs: Bladder, Kidneys, Respiratory System, Skin
Hazard: Toxic
PEL: 0.2 mg/m³
IDLH: 80 mg/m³

The benzene soluble fraction of the coal tar pitch includes benzo(a)pyrene, phenanthrene, acridine, chrysene, anthracene and pyrene. Exposure may produce skin, eye, and upper respiratory tract irritation. Photophobia may occur. Liver and kidney damage may result from overexposure. Chronic exposure may produce lung and skin cancer.

Cyanide

Route of Entry: Inhalation, Ingestion, Skin Absorption, Skin or Eye Contact
Target Organs: Cardiovascular System, Central Nervous System, Kidneys, Liver, Skin
Hazard: Toxic
PEL: 5 mg/m³
IDLH: 50 mg/m³

Inhalation of cyanide can cause asphyxia and death. Ingestion can cause vomiting and increased rate of respiration. Skin contact can cause weakness, headache, confusion, nausea, slow gasping respiration, eye and skin irritation. Symptoms vary by specific compound.

Toluene

Route of Entry:	Inhalation, Ingestion, Skin Absorption, Skin or Eye Contact
Target Organs:	Central Nervous System, Eyes, Kidneys, Liver, Respiratory System, Skin
Hazard:	Flammable (FP 40°F), Toxic
PEL:	200 ppm
IDLH:	500 ppm
IP:	8.82 eV

This solvent may cause irritation to the eyes, respiratory tract, and skin. Repeated or prolonged contact with liquid may cause removal of the natural lipids from the skin, resulting in dry, fissured dermatitis. Liquid splashed in the eyes may cause irritation, and reversible damage. Acute exposure results in central nervous system depression, headache, dizziness, fatigue, muscular weakness, drowsiness, incoordination with staggering gait, and coma.

Xylene

Route of Entry:	Inhalation, Ingestion, Skin Absorption, Skin or Eye Contact
Target Organs:	Blood, Central Nervous System, Eyes, Gastrointestinal Tract, Kidneys, Liver, Respiratory System, Skin
Hazard:	Flammable (FP 81-90°F), Toxic
PEL:	100 ppm
IDLH:	900 ppm
IP:	8.44 - 8.56 eV

Xylene may cause irritation to the eyes, nose, and throat. Repeated or prolonged skin contact may cause drying and defatting of the skin which may lead to dermatitis. Ingestion may cause chemical pneumonitis, or hemorrhage. Repeated eye exposure may cause reversible eye damage. At high concentrations xylene may cause dizziness, staggering, drowsiness, unconsciousness, nausea, or abdominal pain.

Air Monitoring Equipment:

HNu-PID or equivalent breathing zone concentrations less than 5 ppm and airborne concentrations are less than 25% of Permissible Exposure Limits for Level D. Should concentrations exceed these levels, personnel will exit the area.

Level of Protection:

Level D

Emergency:

The following list provides names and telephone numbers for emergency contact personnel. In the event of an emergency, the Project Manager will notify the appropriate emergency organization and/or the appropriate local, state, and federal agencies:

Organization	Contact	Telephone
Hospital - Barnes Hospital		314-362-5000
Ambulance Service - St. Louis City		911
Fire Department Emergency - St. Louis City		911
Police Emergency - St. Louis City		911
Missouri Department of Natural Resources		314-526-3348
RCRA/Superfund (M-F 8:30 am - 7:30 pm EST)		800-424-9346
Title III Community Right to Know (Answers questions about Regulatory issues)		800-535-0202
National Response Center		800-424-8801
Center for Disease Control (CDC) (Atlanta, Georgia)		404-639-3311
Poison Control Center (St. John's Hospital, Springfield)		800-252-2022
CDC - Emergency Response (Chemical spills, dumps and exposure to radiation)		404-639-0615
National Institute for Occupational Safety and Health (NIOSH), Cincinnati, Ohio		800-356-4674
Chemtrec (24 hour emergency no.)		800-424-9300
Sverdrup Environmental Project Manager	M. McCurdy	913-663-2108

Medical emergencies will be taken to:

Barnes Hospital located at 1 Barnes Hospital Plaza (off of Kingshighway Blvd.). From the site, take Mound Street west to Broadway, Broadway south to Spruce Street, Spruce Street west to Interstate 64 west bound on-ramp, I-64 west to Kingshighway Blvd. North bound exit, Kingshighway north to Barnes Hospital on the right.

Signatures

Project Manager:

Michael W Mc Andy

Date: 11-30-95

Health & Safety Manager:

Brian Kraus

Date: 11-17-95